



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

HWD Acquisition, Inc. dba Hurd Windows & Doors
575 South Whelen Avenue
Medford, WI 54451

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Feel Safe" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1404, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, sheets 1 through 6 of 6, dated 07/21/05, with revision E1 dated 12/18/14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 11-1006.06 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



Handwritten signature and date: 3/25/15

NOA No. 14-1224.05
Expiration Date: June 29, 2016
Approval Date: April 02, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No 1404, titled "Feel Safe Aluminum Clad Wood Impact Fixed Casement Window, sheets 1 through 6 of 6, dated 7/21/05, with revision E1 dated 12/18/14, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7776.1** dated 03-04-09, signed and sealed by Tom Kolden, P.E.
(Submitted under NOA #09-0714.06)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7251**, dated 11/20/06, signed and sealed by Thomas Kolden, P.E.
(Submitted under NOA #09-0714.06)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **STCTC-180-7252**, dated 11/20/06, signed and sealed by Thomas Kolden, P.E.
(Submitted under NOA #09-0714.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-1224.05

Expiration Date: June 29, 2016
Approval Date: April 02, 2015

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B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of 6 specimens, each consisting of three-panel configuration of aluminum clad wood casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-52274.04-602-18**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA #06-013.04)
5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad wood fixed windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-57726.01-201-44**, dated 07/07-28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA #06-0130.04)
6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad fixed and casement stationary windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-58961.01-602-18**, dated 07/28/05, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA #06-0130.04)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, dated 05/12/11 and 10/04/11, prepared by W. W. Schaefer Engineering and Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA #11-1006.06)
2. Glazing complies with ASTM E1300-04


Manuel Perez, P.E.

Product Control Examiner
NOA No. 14-1224.05

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D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
2. Notice of Acceptance No. **13-0814.01** issued to **Oldcastle Glass Inc.** for their "**StormGlass™ Glass Interlayer**", dated 10/24/13, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010** and **FBC-5th Edition (2014)**, dated December 18, 2014, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated December 18, 2014, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **11-1006.06**, issued to HWD Acquisition, Inc. dba Hurd Windows & Doors for their Series "**Feel Safe**" Aluminum Clad Wood Fixed Window – L.M.I., approved on 11/07/11 and expiring on 06/29/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-1224.05

Expiration Date: June 29, 2016
Approval Date: April 02, 2015

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

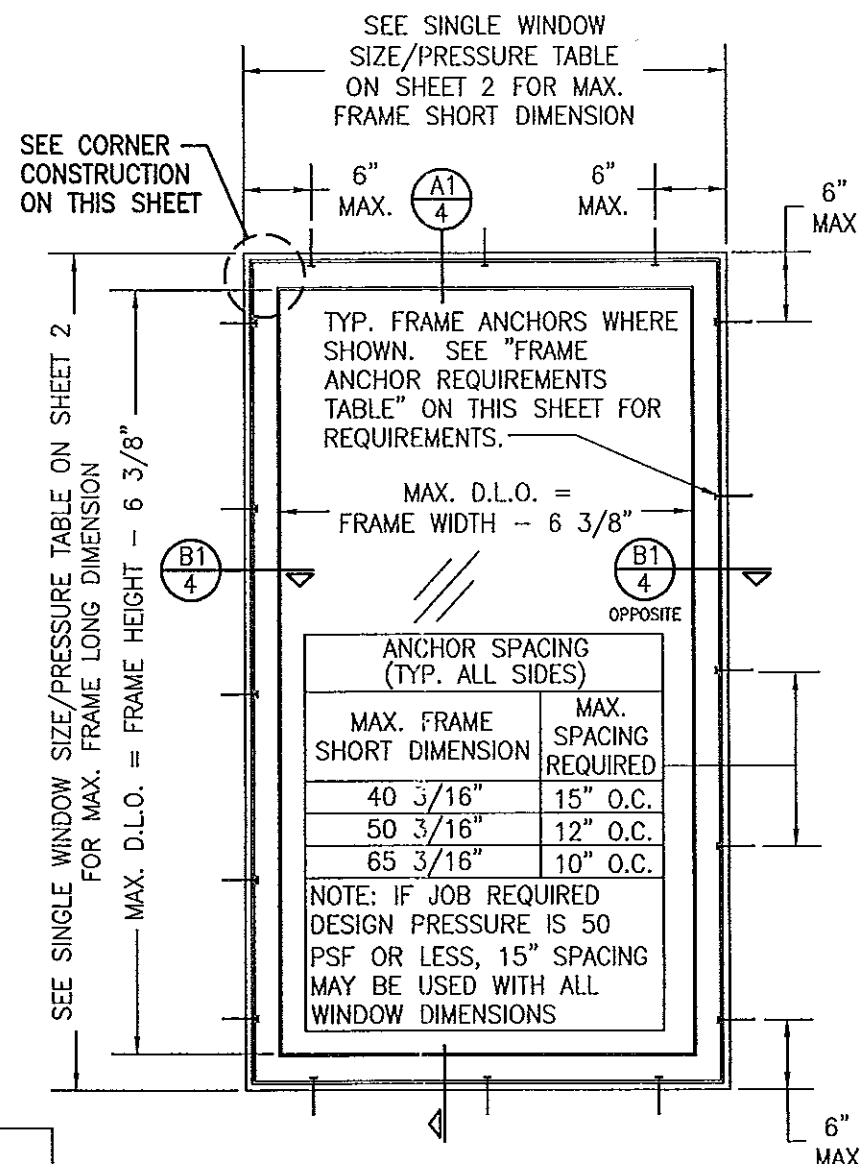
CORNER CONSTRUCTION:

- WOOD FRAME:** SQUARE CUT, RABBETED, SILICONE SEALED & SECURED WITH THREE (3) 16 GA. X 1/2" X 2" CROWN STAPLES.
- FRAME CLAD:** MITER CUT, JOINED WITH A CORNER KEY & TWO (2) NO. 7 X 1/2" SCREWS & SEALED WITH A FOAM GASKET.
- WOOD SASH:** MORTISE & TENON CONSTRUCTION AND SECURED WITH TWO (2) 14 GA. X 2 1/2" T-NAILS.
- SASH CLAD:** SQUARE CUT, BUTTED TOGETHER AND SNAP FIT TO SASH AND SEALED WITH SILICONE.

FRAME ANCHOR REQUIREMENTS TABLE

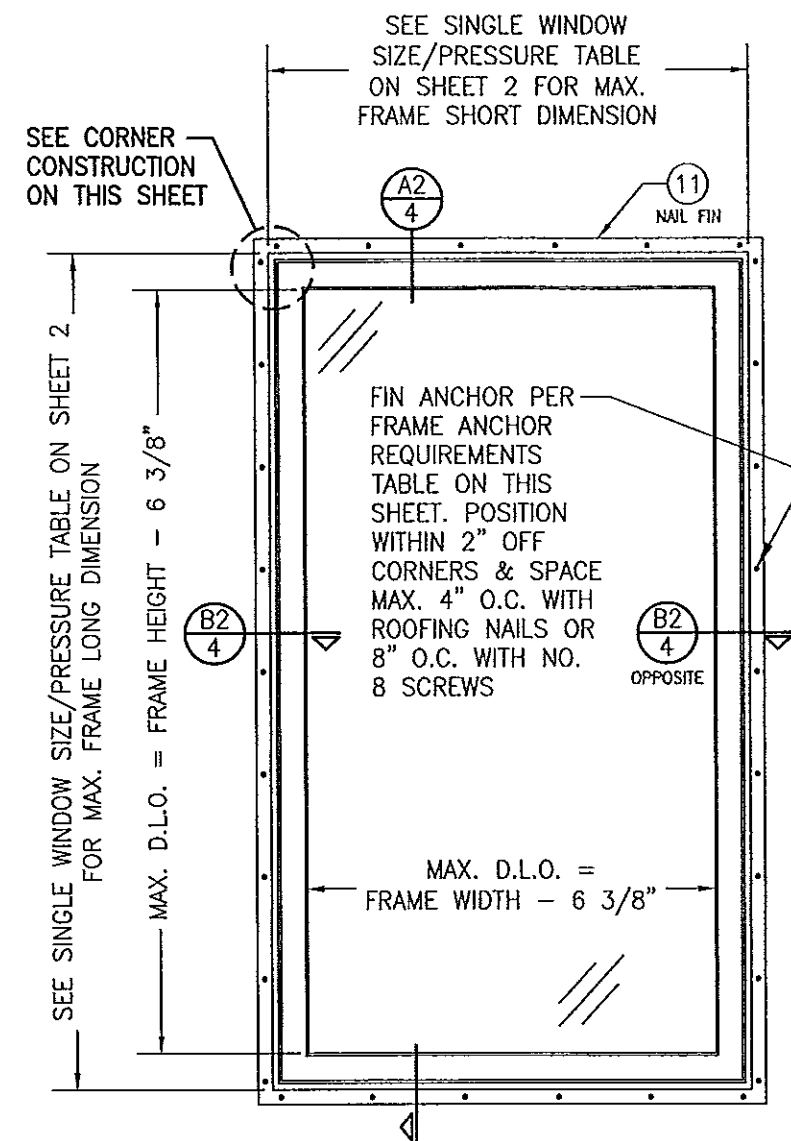
OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/4"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (2) NAIL FIN SCREWS SHALL BE A PAN HEAD OR HEX HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE WINDOW
(FRAME SCREW MOUNT)
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN PRESSURE
SEE SINGLE WINDOW SIZE/PRESSURE TABLE ON SHEET 2



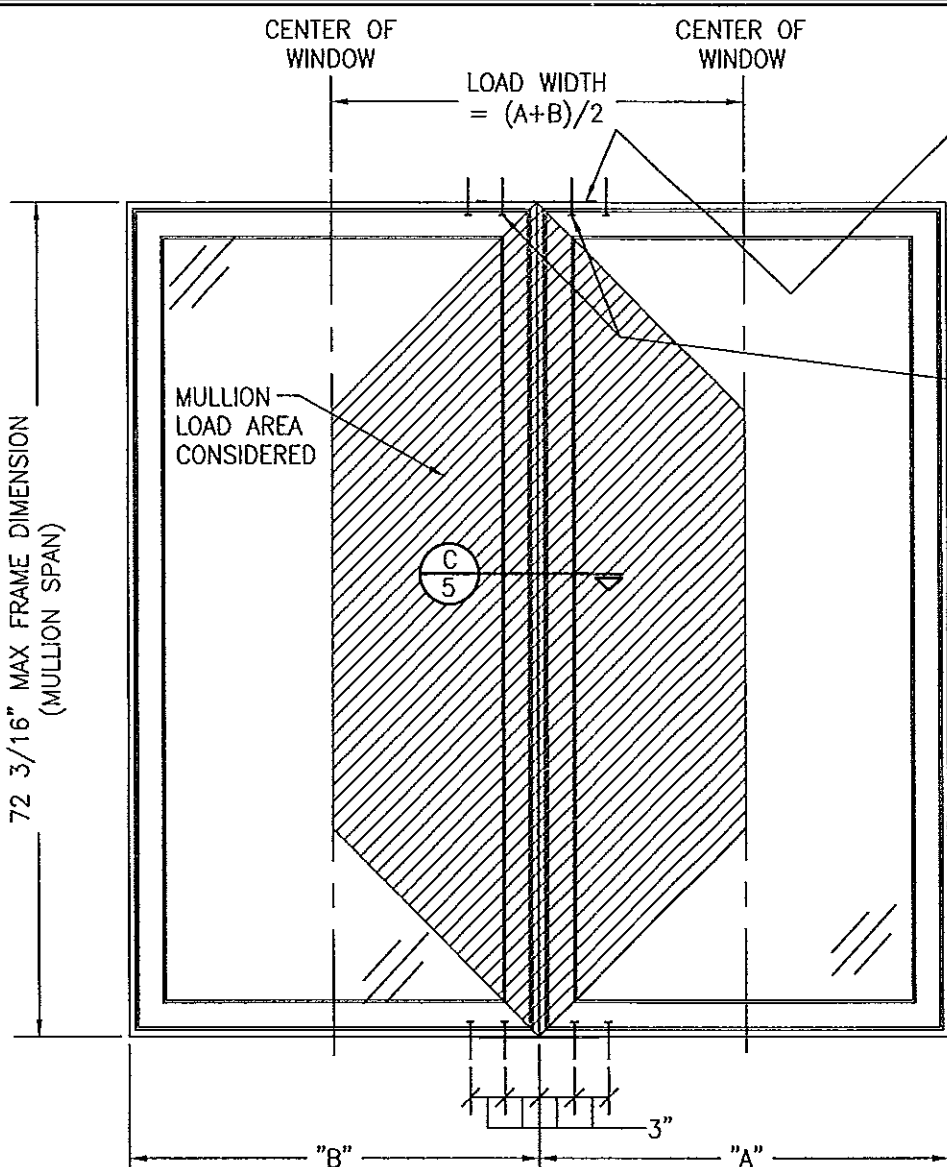
EXTERIOR ELEVATION:
SINGLE WINDOW
(FIN MOUNT)
SCALE: 3/4"=1'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224.05
Expiration Date: June 29, 2016
By: *Warren M. Schaefer*
Miami Dade Product Control

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
DATE: 10/30/09	DATE: 7/21/05
BY: W.W.S.	BY: W.W.S.
REVISION DESCRIPTION	TRANSOM CONDITION
NO. B1	ADD TWIN WINDOW WITH
NO. C1	CHANGE M.F.G. NAME
NO. D1	UPDATE CONSULTANT
NO. E1	UPDATE TO CURRENT STANDARDS
MANUFACTURER HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
CERTIFICATION DEC 18 2014 WARREN M. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1404	REV. E
SHEET NO. 1 OF 6	

ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE									
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)							
		GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTIONS 4 & 5	
		POS	NEG	POS	NEG	POS	NEG	POS	NEG
144	45					65.0	80.0		
	29			65.0	70.0	65.0	80.0	65.0	70.0
	18	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
132	50					65.0	80.0		
	32			65.0	70.0	65.0	80.0	65.0	70.0
	22			65.0	85.0	65.0	80.0	65.0	70.0
120	18	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	55					65.0	80.0		
	36			65.0	70.0	65.0	80.0	65.0	70.0
108	24			65.0	85.0	65.0	80.0	65.0	70.0
	21	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	61					65.0	80.0		
101	40			65.0	70.0	65.0	80.0	65.0	70.0
	24	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
96	42			65.0	70.0	65.0	80.0	65.0	70.0
	28			65.0	85.0	65.0	80.0	65.0	70.0
	24	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
90	65					65.0	80.0		
	44			65.0	70.0	65.0	80.0	65.0	70.0
	30			65.0	85.0	65.0	80.0	65.0	70.0
84	27	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
	48			65.0	70.0	65.0	80.0	65.0	70.0
78	32			65.0	85.0	65.0	80.0	65.0	70.0
	29	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
72	51			65.0	70.0	65.0	80.0	65.0	70.0
	34			65.0	85.0	65.0	80.0	65.0	70.0
	31	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
64	65					65.0	80.0		
	55			65.0	70.0	65.0	80.0	65.0	70.0
	37			65.0	85.0	65.0	80.0	65.0	70.0
60	33	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	65					65.0	80.0		
	60			65.0	70.0	65.0	80.0	65.0	70.0
52	45			65.0	85.0	65.0	80.0	65.0	70.0
	40	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	60			65.0	70.0	65.0	80.0	65.0	70.0
48	43	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	52			65.0	85.0	65.0	80.0	65.0	70.0
	50	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
48	48	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0
	48	65.0	70.0	65.0	85.0	65.0	80.0	65.0	70.0

NOTES:
1. SEE GLAZING DETAILS FOR GLAZING OPTIONS
2. CROSSED OUT BOXES DESIGNATE SIZES NOT ACCEPTABLE FOR THE RESPECTIVE GLASS OPTION.
3. ALL DIMENSIONS ARE +/- 3/16"

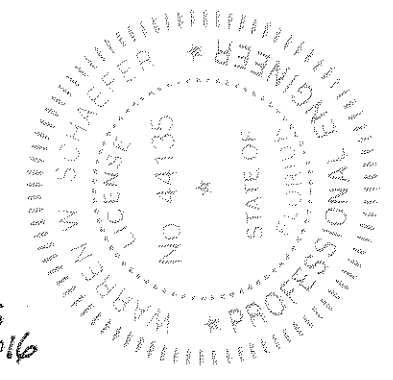


EXTERIOR ELEVATION:
MULTIPLE SIDE-BY-SIDE FIXED WINDOWS
SCALE: 3/4"=1'-0"
(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)
(DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER IN ONE DIRECTION INTO ONE OPENING.)
NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

ALLOWABLE PRESSURE (SIDE-BY-SIDE UNITS)			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (P.S.F.)	
		POSITIVE	NEGATIVE
72	60	61.8	66.5
	54	65.0	70.0
66	66	65.0	70.0
60	72	65.0	70.0
60	48	65.0	85.0
LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.			
LOAD WIDTH VALUES ARE +/- 1/2"			

- MULTIPLE UNIT NOTES:**
1. THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE MULLION LOAD TABLE ON THIS SHEET FOR ALLOWABLE UNIT PRESSURE.
 2. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. TO INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOW(S) WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOW, WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL LIMIT THE SAG OF THE HORIZONTAL MULLION TO MAX. 1/8".

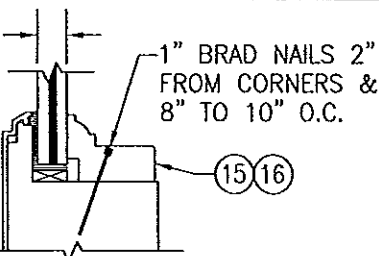
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224-05
Expiration Date June 29, 2016
By *Manuel Jerez*
Miami Dade Product Control



DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 7/21/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION: DEC 18 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1404	REV. E
SHEET NO. 2	OF 6

SEE GLASS OPTIONS
1, 2 & 3 BELOW

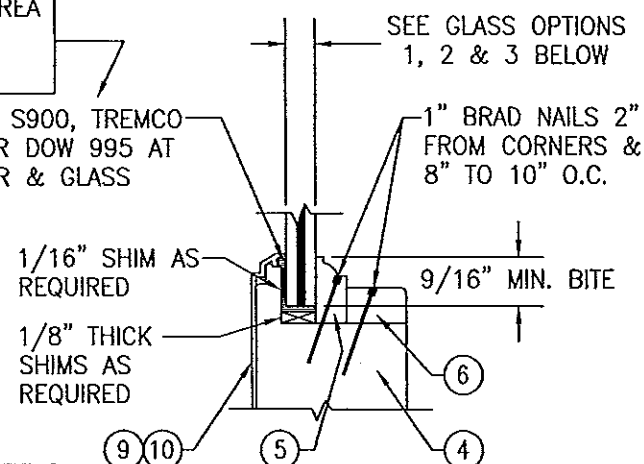
SEE 2-PIECE
DETAIL FOR
INFORMATION NOT
SHOWN



NON-I.G. GLAZING DETAIL WITH 1-PIECE GLAZING BEAD

WHEN USING TREMCO
S900, THE OVERALL
WINDOW FRAME AREA
MAY NOT EXCEED
30.4 S.F.

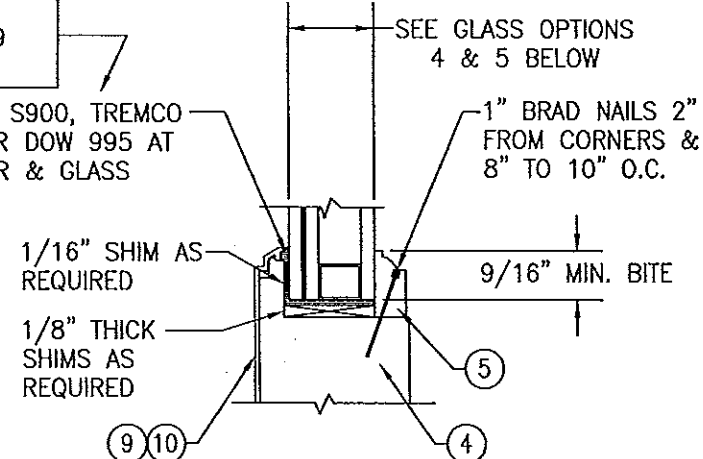
TREMCO S900, TREMCO
S700 OR DOW 995 AT
EXTERIOR & GLASS
EDGE



NON-I.G. GLAZING DETAIL WITH 2-PIECE GLAZING BEAD

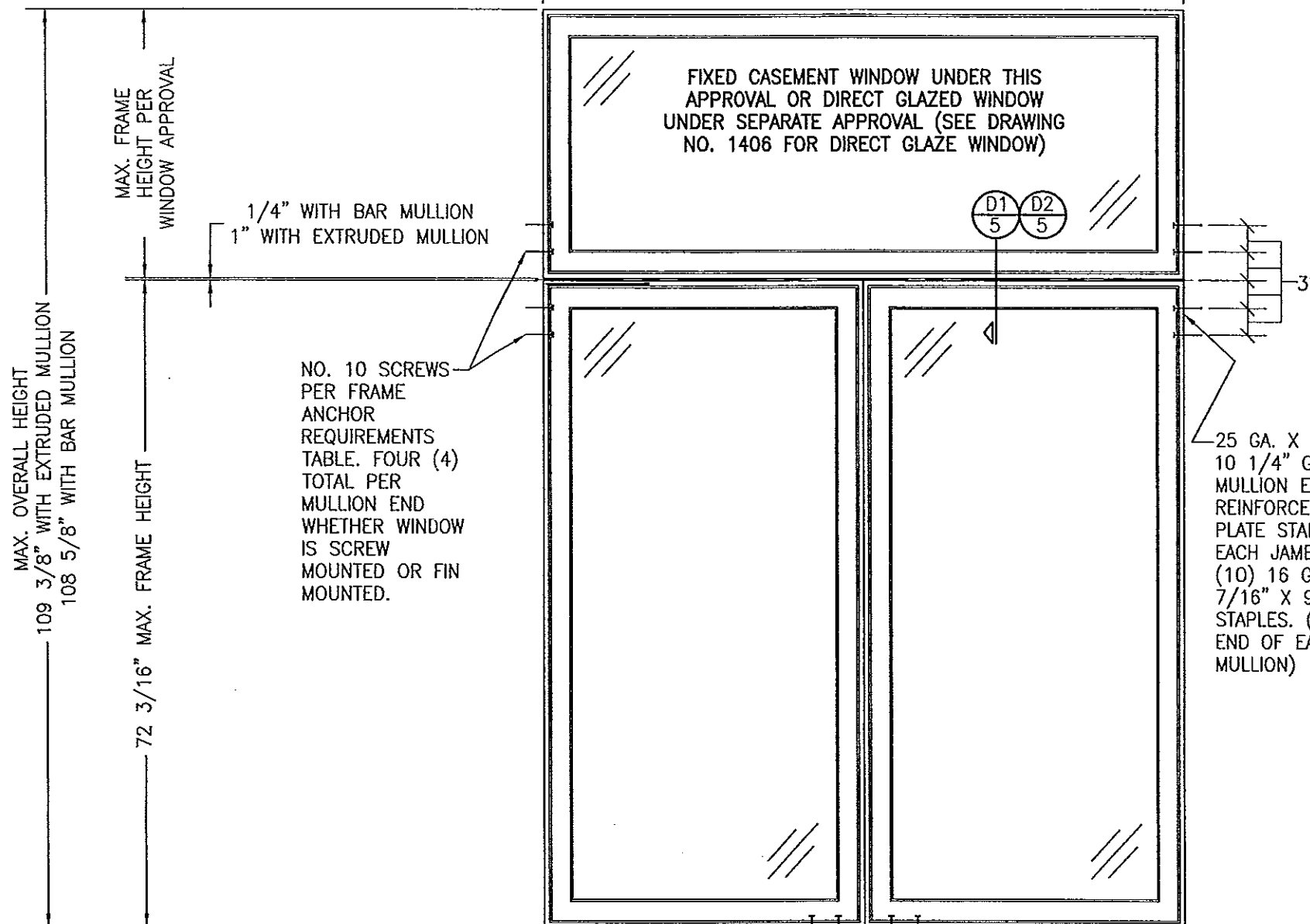
WHEN USING TREMCO
S900 WITH GLASS
OPTION 4, THE
OVERALL WINDOW
FRAME AREA MAY
NOT EXCEED 29.9
S.F.

TREMCO S900, TREMCO
S700 OR DOW 995 AT
EXTERIOR & GLASS
EDGE



I.G. GLAZING DETAIL WITH 1-PIECE GLAZING BEAD

- OPTION 1:** 3/8" LAMINATED GLASS BY SOLUTIA (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32" AN).
- OPTION 2:** 9/16" LAMINATED OLDCASTLE STORMGLASS (1/4" AN/0.075 EASTMAN CHEM. CO. SAFLEX CP/1/4" AN).
- OPTION 3:** 9/16" LAMINATED OLDCASTLE STORMGLASS (1/4" HT. ST./0.075 EASTMAN CHEM. CO. SAFLEX CP/1/4" HT. ST.).
- OPTION 4:** 1" I.G. GLASS WITH 3/8" EXTERIOR LAMINATED GLASS BY SOLUTIA (5/32" HT. ST./0.09 EASTMAN CHEM. CO. SAFLEX/5/32" HT. ST.), 7/16" SPACER & 5/32" TEMPERED AT INTERIOR
- OPTION 5:** 1" I.G. GLASS WITH 7/16" EXTERIOR LAMINATED GLASS BY OLD CASTLE (3/16" HT. ST./0.075 STORMGLASS/3/16" HT. ST.), 3/8" SPACER & 3/16" TEMPERED AT INTERIOR



EXTERIOR ELEVATION: TWIN WINDOW WITH TRANSOM

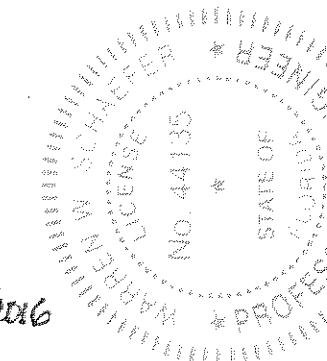
SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)

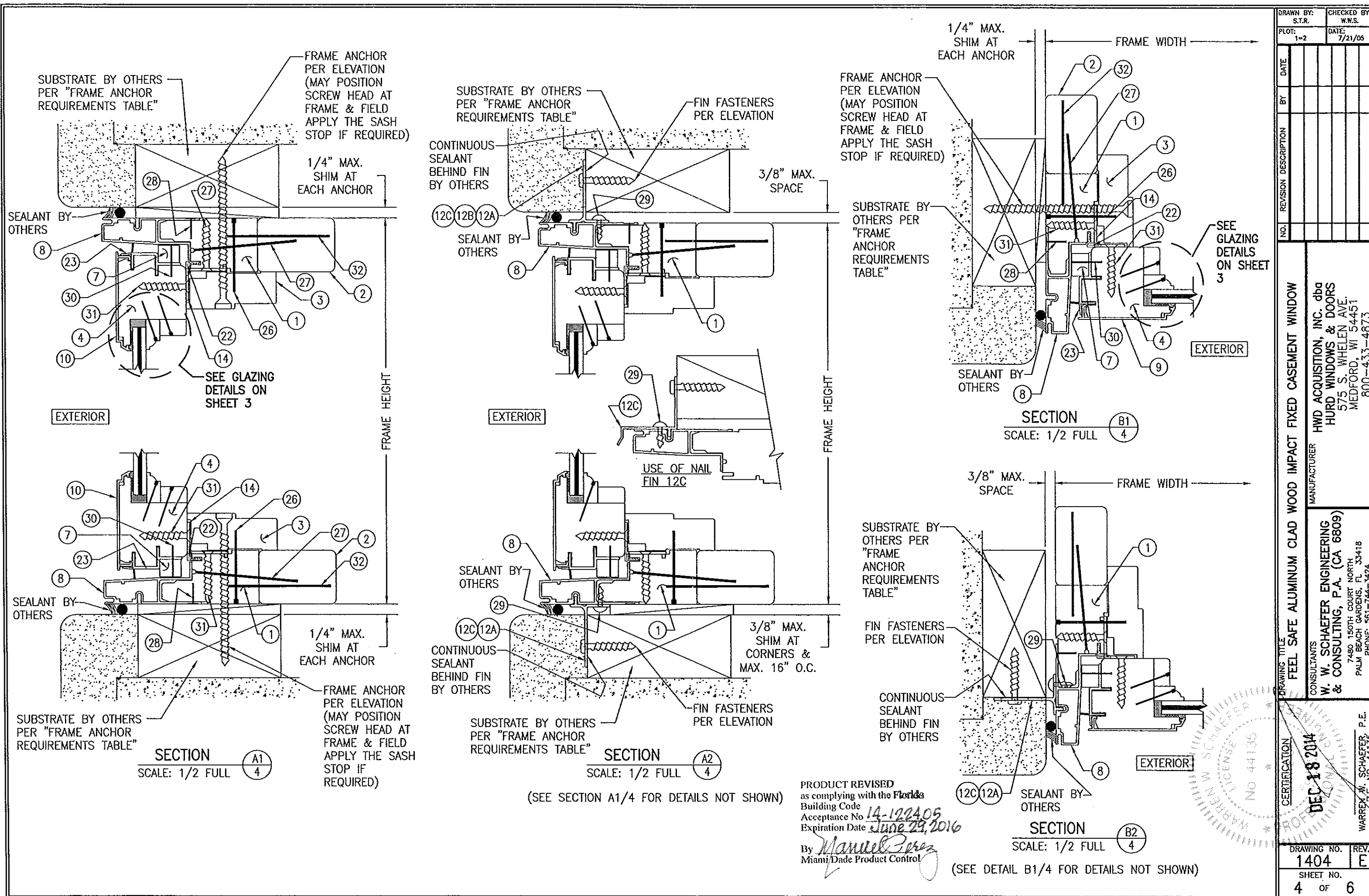
ALLOWABLE DESIGN PRESSURE (TWIN WINDOW WITH TRANSOM)

ALLOWABLE PRESSURE SHALL BE THE LESSER OF +65/-70 PSF OR THAT SPECIFIED FOR THE INDIVIDUAL WINDOWS. (SEE SINGLE WINDOW SIZE/PRESSURE TABLE ON SHEET 2)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224-05
Expiration Date June 29, 2016
By *Manuel Perez*
Miami Dade Product Control

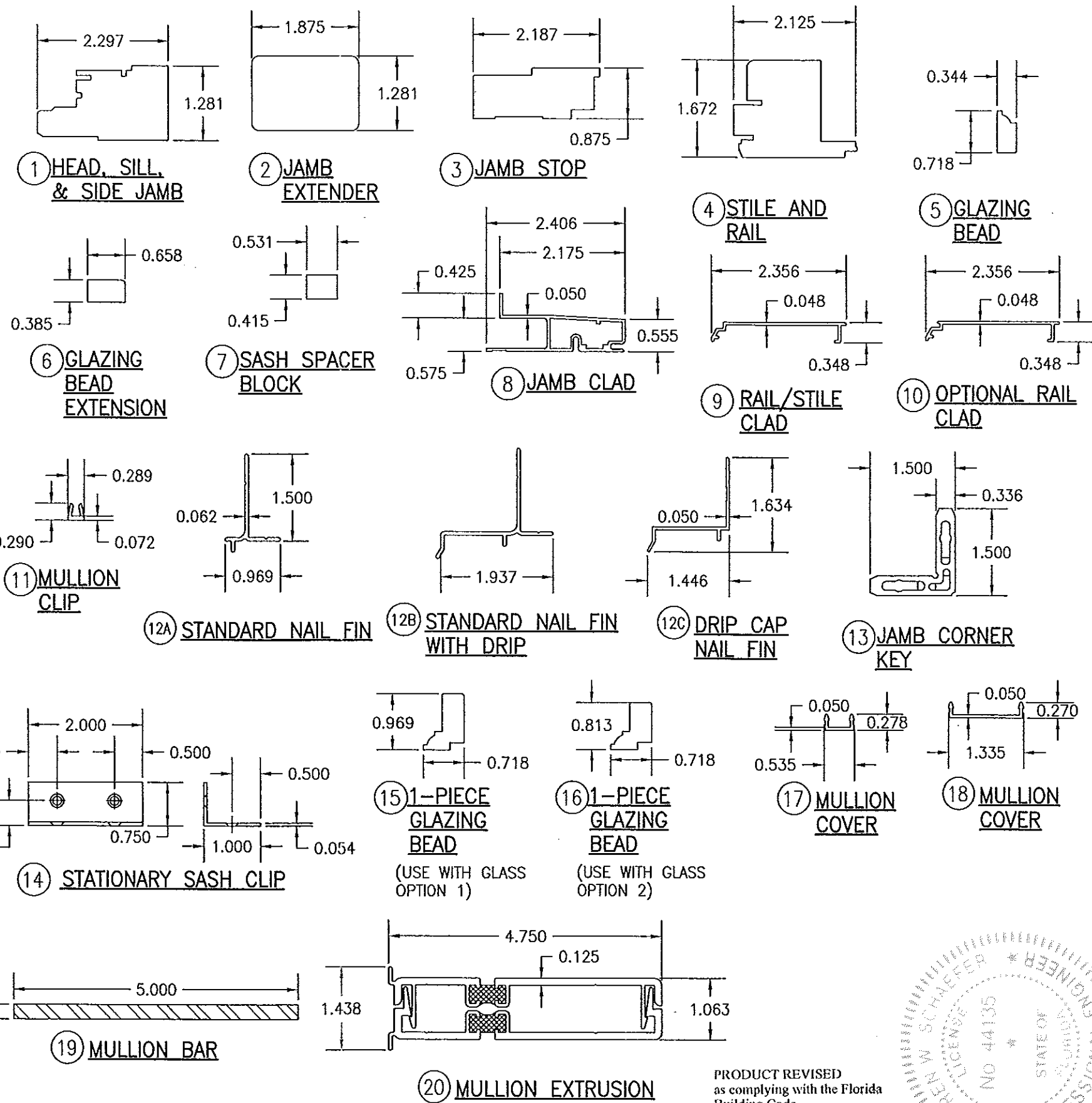


DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 7/21/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873
CERTIFICATION DEC 18 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1404 SHEET NO. 3 OF 6



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	CCSE 223	HEAD, SILL, & SIDE JAMB	* PONDEROSA/SUGAR PINE
2	CCSE 225	JAMB EXTENDER	* PONDEROSA/SUGAR PINE
3	HC 155	JAMB STOP	* PONDEROSA/SUGAR PINE
4	ECSE 200	STILE AND RAIL	* PONDEROSA/SUGAR PINE
5	ALWD 375	GLAZING BEAD	* PONDEROSA/SUGAR PINE
6	300-0025	GLAZING BEAD EXTENSION	* PONDEROSA/SUGAR PINE
7	CCSE 300	SASH SPACER BLOCK	* PONDEROSA/SUGAR PINE
8	CCSE 440	JAMB CLAD	6063-T6 ALUMINUM
9	ECSE 400	RAIL/STILE CLAD	6063-T5 ALUMINUM
10	ECSE 405	OPTIONAL RAIL CLAD	6063-T5 ALUMINUM
11	PA 115	MULLION CLIP	6060-T5 ALUMINUM
12A	-	STANDARD NAIL FIN	6063-T6 ALUMINUM
12B	-	STANDARD NAIL FIN WITH DRIP	6063-T6 ALUMINUM
12C	-	DRIP CAP NAIL FIN	6063-T6 ALUMINUM
13	CCSE 620	JAMB CORNER KEY	NYLON 66 MATERIAL
14	-	STATIONARY SASH CLIP	5" FROM CORNERS & 10" O.C.
15	216273	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
16	216275	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
17	-	MULLIN COVER	6063-T6 ALUMINUM
18	-	MULLIN COVER	6063-T6 ALUMINUM
19	-	MULLION BAR	6061-T6 ALUMINUM
20	-	MULLION EXTRUSION	6063-T6 ALUMINUM
SEALS AND SEALANTS			
22	020546	FRAME WEATHERSTRIP	GREY SANTOPRENE FOAM
23	ECSE 625	SASH WEATHERSTRIP	VINYL
FASTENERS			
26	092748	13 GA. 1 1/2" RING SHANK OR SPIRAL NAIL	4" FROM CORNERS & 6" TO 12" O.C.
27	024617	2 1/2" X 1" CROWN STAPLE	2" FROM CORNERS & 10" O.C. (REQUIRED WHEN WINDOW FRAME DIMENSION IN EITHER DIRECTION IS 72 3/16" OR LESS)
28	019892	#18 X 1/2" GSN STAPLE	2" FROM CORNERS & 7" TO 10" O.C.
29	-	#6 X 5/8" PH SCREW	2" FROM CORNERS & 9" O.C.
30	-	18 GA. X 3/4" STAPLE	1 PER SPACER BLOCK
31	-	#8 X 1 1/4" S.S. SMS	2 PER CLIP
32	-	AUTO-NAIL WIRE	4" FROM CORNERS & 8" O.C. (REQUIRED WHEN WINDOW FRAME DIMENSION IN EITHER DIRECTION IS GREATER THAN 72 3/16")

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY HURD WINDOWS & DOORS TO SELECT.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1224-05
Expiration Date June 29, 2016
By *Manuel Perez*
Miami/Dade Product Control

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 7/21/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CERTIFICATION DEC 18 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1404 REV. E SHEET NO. 6 OF 6	